

# **Ethnobotany of the Kman of Arunachal Pradesh**

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## ABSTRACT

The Kman people of Arunachal Pradesh still inhabit a rich and biodiverse environment which has been preserved from the major threats to SE Asian forests. The forests are still little-known, and there are no field guides or local herbaria to aid identification. The paper presents a very preliminary account of Kman ethnobotany, discussing the classification of plants, their medical and practical uses and their role in Kman religious ideas.

Keywords; Kman; ethnobotany; Arunachal Pradesh

## **1. Introduction: ethnobotany**

Ethnoscience may be briefly defined as the attempt to map indigenous understanding of the external world against 'science', broadly conceived, or at least some external interpretative system. In its simplest form, it has tended to consist of long lists of vernacular names tabulated against their scientific equivalents. It was realised quite early that such an exercise could be misleading; that without a corresponding understanding of the underlying classificatory system the archive of checklists would grow ever more voluminous but their usefulness would be at best doubtful.

In principle, classificatory studies can be applied to almost any cognitive area; outside the natural world, colour is perhaps the most widely studied. Nonetheless, the rich biology of many tropical environments has stimulated the majority of work in this area. Ethnoscience also has a practical and indeed commercial aspect; loggers searching for timber trees, foresters trying to estimate the value of woodland and medical botanists seeking clues to indigenous pharmacopoeias have made use of compilations of vernacular names. Somewhat later, anthropologists would come to see this raw material as an excellent jumping-off point for studies of cognitive systems.

The useful plants literature focuses on medicinal plants and to a lesser extent catalogues of other uses relevant to subsistence communities, such as firewood. The academic tradition redevelops in America under the stimulus of new ideas about classificatory concepts. Ethnoscience is reborn with an emphasis on notions of structure in terminology and hierarchy in categories of thought. This particularly associated with the work of Brent Berlin in the New World (e.g. Berlin, 1992; Berlin *et al.* 1973), Ralph Bulmer in New Guinea (e.g. Bulmer 1967) and later Cecil Brown in Amerindian and Polynesian languages (1984, 1985) and Taylor (1990) in Indonesia. Features of this body of work are a notable disinterest in cultivated plants and domestic animals and considerable attention to the structure of the conceptual world of other cultures. Typically, a series of implicit or explicit categories are arrayed in ranked form and the considerable datasets of identified plants and animals placed within these ordered hierarchies.

A rather different approach can be traced to the influence of social anthropology. In this view, categories are less than absolute, and should be understood as developing and used within social contexts. This is associated with the work of Roy Ellen (e.g. Ellen and Reason, 1979; Ellen 1993). There is a sense in which this is self-evident; individual informants do not generally produce entire crypto-scientific schemas to conveniently illuminate their understanding of the natural world. Categories are confused and disputed and different subgroups in a society may have good reasons for interpreting concepts in differing fashions.

## **2. Forests and biodiversity in SE Asia**

Until recent times, the tropical forests of SE Asia were characterised by a highly biodiverse fauna. However, modern economic pressures have meant that forests are under attack almost everywhere. Industrial logging companies have accessed the forests of Cambodia and Laos by barely legal means, feeding the desire of the developed world for tropical hardwood.

A region which remains well-preserved is the tropical forests of Arunachal Pradesh. There are several reasons for this, the most important of which is the highly dissected terrain. The region is cut through with deep river valleys, and mountain slopes which descend rapidly from the Tibetan Plateau leaving very few areas of flat land for establishing homesteads and settlements. At the same time, the region is subject to earthquakes, landslides and other types of geomorphological instability, leading to periodic floods. This has acted as a major deterrent to the buildup of high population densities, despite the potentially rich fauna and flora. Indigenous populations remain small and highly scattered, responding to the potential risks. At the same time, entirely by chance, political friction between India and China and the fractious situation in Tibet has meant that the border has long been closed. A supposed Indo-China 'war' in 1960, in reality more like a border skirmish, has meant that normal commercial traffic between the two countries is not operating although many ethnic groups have cross-border distributions. Prior to this, local populations were intermediaries in a trade connecting Tibet and the valley of the Brahmaputra in Assam. Irritating as the closure of the border must be, especially to divided peoples, it has had one beneficial effect, the preservation of forest from the demands of Chinese traders.

### 3. Plants

#### 3.1 Plant classes and parts

Kman has no over-arching term for ‘plant’ which covers all life-forms. Instead it has a diverse array of categories, which seem to have no common lexical element. These are shown in Table 1.

**Table 1. Kman categories of plant**

English	Kman	Comment
algae	gwî	
bamboo	wâ	
bush, shrub	chāmphūm	
cane	māy krī	
creeper	shūkrùw	
fern	mēklit	
fungus	sálay	
moss	māwàn	
mushroom	chīnūng	
tree	səng	

Kman names for parts of plants largely correspond to those in English (Table 2);

**Table 2. Kman names of plant parts**

English	Kman	Comment
bark	ūng	
branch	chūng khōy	
flower	phân	
fruit	s <sup>h</sup> it	
grass	tāphūn	
leaf	lâp	
leaf	lâphûw	big leaves used for plates
leaf	ólâ	big leaves used for plates
root	krâ	
seed	lūy brât	
seedling	lūy kātī	
stump	tūl	
thatching grass	māplòng	
thorn	kēthāw	
tree crown	chūk	

Kman landscape divisions are largely oriented around the distinction between the mountains and plains. Table 3 show the main categories of landscape recognised by the Kman.

**Table 3. Kman landscape categories**

English	Kman	Comment
jungle	kānān	
mālōŋ	thick or virgin forest	

**3.2 Domestic plants**

Table 1 shows the names of Kman domestic plants

**Table 4. Kman domestic plant names**

<b>English</b>	<b>Kman</b>	<b>Latin</b>	<b>Comment</b>
<b>Grains</b>			
maize	bò	<i>Zea mays</i>	
rice, processed	hākūw	<i>Oryza sativa</i>	
paddy	māng	<i>Oryza sativa</i>	
millet, foxtail	mūng	<i>Setaria italica</i>	
millet, finger	dērò	<i>Eleusine coracana</i>	
wheat	kə̀tsāwng	<i>Triticum spp.</i>	
mystery grain	pūrūng		now said to be extinct
mystery grain	chīkā		
sorghum	chāmphān	<i>Sorghum bicolor</i>	
<b>Beans</b>			
bean	chhông		
bean, soya	blāy	<i>Glycine max</i>	
bean, yard-long	chhông nàpdūng	<i>Vigna sesquipedalis</i>	
bean, flat green	dū̀b bēē		
lentil	chhī	<i>Lens culinaris</i>	
bean, black and grey	grūw		Mishmi dal
pea sp.	māmblē	<i>Pisum sativum</i>	
pea	māmblē	<i>Pisum sativum</i>	
<b>Fruits</b>			
banana, plantain	hāmbyūng	<i>Musa sapientium</i>	
jackfruit	mā' lāng	<i>Artocarpus heterophyllus</i>	
strawberry	hūtyùm		
lemon	tōkì		
mango	ām	<i>Mangifera indica</i>	< Hindi
melon	gīl tū'		
orange, tangerine	tèngā	<i>Citrus reticulata</i>	< Assamese
papaya	pūmtò	<i>Carica papaya</i>	
pear	gāyūng		A. naspati
pineapple	dērəl	<i>Ananas comosus</i>	
plum I	ēmèn		
plum II	tapui	???	

English	Kman	Latin	Comment
<b>Tubers</b>			
cassava, tapioca	mākhlaw gān	<i>Manihot esculenta</i>	gan = deep-rooted
potato	ālù	<i>Solanum tuberosum</i>	
sweet potato	lāhō	<i>Ipomoea batatas</i>	
sweet potato	shūkūn	<i>Ipomoea batatas</i>	
taro	gāl	<i>Colocasia esculenta</i>	
yam	gān	<i>Dioscorea spp.</i>	
<b>Vegetables</b>			
? leaf	būw shāw		
wild green leaf	chōphāy		
green leaf	chàngkhròng		
green leaf	chāngkhrōng shāw		H. lahi
gourd	chōkāng		
?	chhōng chātà		
bean (flat green)	chhōng dūbbē		
?	chhōng nàptùng		
?	chhōng chāpēng		
mustard	ātù		tūrī = plant
cucumber	gīl	<i>Cucumis sp.</i>	
cauliflower	gōbi		
bamboo shoot	gō'		
bitter gourd	kèrēlā		< Kerala
water gourd	kē'ùm		
wild green leaf	khràm shāw		
garlic	lòsūn	<i>Allium sativum</i>	< Hindi
green leaf (used as spice)	māykī		
sesame, white	nyām blōng		
sesame var.	nyām grān		
sesame var.	nyām phūm		
sesame, black	nyām		note tone
spring onion	pālūw	<i>Allium ascalonicum</i>	
eggplant, brinjal	phyūdù	<i>Solanum melongena</i>	
pumpkin	pōprà	<i>Cucurbita pepo</i>	
onion	pyās	<i>Allium cepa</i>	< Hindi
tomato	shāw sāl	<i>Lycopersicon esculentum</i>	
?	shī shàw		
?skwas	shūkàwā		
<b>Spices</b>			
spice, general	shāwsūng		
strawleaf	ānthūng shāwsūng		
chili	bichī	<i>Capsicum annuum</i>	
? spice (that gives sensation)	chīmārō		

English	Kman	Latin	Comment
ginger	dā'ing		
? spice	dāmā'		= tāmā'
? spice	dūm gèrǎ		
? spice	ilāychī		
cinnamon	jīshà		
? spice (garlic spc)	mā'kāw		= pūlūw
? spice	mūngsūng		
? spice	pākhù		
? spice	pùdīnā		A. pudina
? spice (garlic spc)	pūlūw		= mā'kāw
? spice	shāwsūŋ bālā		A. Naga dhaniya
? spice	tānā gèrě		

### Other useful

gourd	cōkāŋ	<i>Lagenaria siceraria</i>
cotton	kāmbāt	<i>Gossypium spp.</i>
sugar-cane	grūt	<i>Saccharum officinarum</i>
tobacco, local	tāmbya	<i>Nicotiana tabacum</i>
tobacco, commercial		
opium	kānī	

## 3.3 Wild plants

### 3.3.1 Trees

Table 5. Kman tree names

English	Kman	Assamese	Latin	Additional
tree sp. I	ām		<i>Litsaea citrata</i>	
tree sp. I	ānthūŋ shāwsūng	<i>chitranala</i>		leaves used for flavouring food
tree sp. I	braysung	<i>shishu</i>		grows along rivers
tree sp. I	chāktūy	<i>oriam</i>		
tree sp. I	chambwi			used to make furniture
tree sp. I	chamdong	<i>jati puma</i>		
tree sp. I	chāmphōt		<i>Leucosceptrum canum</i>	
tree sp. I	chōkhrōng	<i>dhuna</i>		
kainjal	chōktūy	N. <i>kainjal</i>	<i>Bischofia javanica</i>	
tree sp. I	chōlāy		<i>Callicarpa arborea</i>	
tree sp. I	chōphrāng	N. <i>satpatay</i>	<i>Aesculus punduana</i>	
tree sp. I	chōphrāng		<i>Trevesia palmata</i>	
tree sp. I	chōp'rèung	N. <i>setosiris</i>	<i>Albizzia procera</i>	
tree sp. I	chōthēm			fruit like an orange, eaten
tree sp. I	chūtho	<i>lali puma</i>		
tree sp. I	chūthu	<i>pok jima</i>		used for firewood
tree sp. I	chō'chāy			hardwood
tree sp. I	jīshà lāp		<i>Cinnamomum cecidodaphne</i>	

English	Kman	Assamese	Latin	Additional
tree sp. I	zāwpà	<i>owtenga</i>		
maple	ōchā, lōchā		<i>Acer thomsoni</i>	leaves used to serve food. malayta (Nepali)
tree sp. I	ōsì		<i>Rhus semialata</i>	
tree sp. I	ōyāy	<i>hingori</i>		Also Kman <i>tāsā</i>
tree sp. I	gəri	<i>jutuli</i>		used in construction
tree sp. I	grāwk		<i>Alangium begoniaefolium</i>	
Indian rose chestnut	grāy	<i>nahor</i>	<i>Mesua ferrua</i>	hard wood
Himalayan birch	hā'yòng	<i>N. saur</i>	<i>Betula cylindrostachys</i>	
tree sp. I	həla'		<i>Terminalia myriocarpa</i>	holok
tree sp. I	hāmbōng		<i>Erythrina arborescens</i>	
screwpine	hōngjìp		<i>Pandanus furcatus</i>	
tree sp. I	jīshà		<i>Cinnamomum cecidodaphne</i>	
tree sp. I	jūk kàhò'		<i>Ficus roxburghii</i>	
tree sp. I	kāhāl	<i>pitula</i>	<i>Altingia excelsa</i>	
tree sp. I	kāhò'		<i>Trema politoria</i>	fruiting tree, produces stripes in trunk used for thatching
tree sp. I	kānggōng lāp			
tree sp. I	kāyò'		<i>Talauma hodgsoni</i>	
kabra	kāchəng	<i>khokan</i>	<i>Ficus benjamina</i> var. <i>comosa</i>	
banyan	kāshōng	<i>khokan</i>	<i>Ficus benjamina</i>	
tree sp. I	khīsəntikà		?	
tree sp. I	khērō	<i>bhola</i>	<i>Morus laevigata</i>	
tree sp. I	lāngkhrō'		<i>Trevesia palmata</i>	
tree sp. I	lōmbyōng lāp			used for thatching
gunelo	lāpūm lāp	<i>N. gunelo</i>	<i>Callicarpa arborea</i>	
tree sp. I	lò'		<i>Symingtonia populnea</i>	
Himalayan silver fir	màchì		<i>Abies webbiana</i>	
rubber tree	mànəng səng		<i>Ficus elastica</i>	
Himalayan hemlock	mākhrùng səng		<i>Tsuga brunoniana</i>	
kabra	mārày	<i>khokan</i>	<i>Ficus benjamina</i> var. <i>comosa</i>	
tree sp. I	mātù' sīt		<i>Spondias axillaris</i>	
tree sp. I	mūnzàng		<i>Rhus succedanea</i>	used as spice. it gives sensation
tree sp. I	mūngglō'	<i>N. uttis</i>	<i>Alnus nepalensis</i>	
tree sp. I	mungshì	<i>gunsorai</i>		
tree sp. I	nāpkhràwng		<i>Saurauia napaulensis</i>	
tree sp. I	rēhà kəmày	<i>siris</i>	<i>Alnus sp.</i>	
tree sp. I	rēngglòng	<i>borpat</i>	<i>Ailanthus grandis</i>	used for plywood
long-leaved pine	rūng	<i>tel khori</i>	<i>Pinus longifolia</i>	
tree, generic	səŋ			
tarsing	shúngrò,	<i>dhuna</i>	<i>Beilschmeidia</i>	

English	Kman	Assamese	Latin	Additional
	hǔngrǒ		<i>roxburghiana</i>	
tree sp. I	tābrālyà	<i>ritha</i>		fruit used as a whistle
tree sp. I	tàksǔ		<i>Schima wallichii</i>	
tree sp. I	tāpù		<i>Castanopsis tribuloides</i>	
tree sp. I	tāsā	<i>hingori</i>		Also Kman āyāy
tree sp. I	təki phúkrú	<i>rubub</i> <i>tenga</i>		wild lemon
tree sp. I	təksǔy		<i>Caryota urens</i>	
tree sp. I	thǔwō'		<i>Engelhardtia spicata</i>	
toku patta palm	tōnggū' lāp			used for thatching
tree sp. I	tǔmà sèng		<i>Gynocardai odorata</i>	
tree sp. I	ùmrā		<i>Elaeocarpus lanceaefolius</i>	
Japanese maple	yāw		<i>Cryptomeria japonica</i>	
Himalayan silver fir	yāwk		<i>Abies webbiana</i>	
Japanese maple	yèmbi		<i>Cryptomeria japonica</i>	

### 3.3.2 Bamboos and rattans

**Table 6. Kman bamboo names**

English	Kman	Assamese	Latin	Additional
bamboo	wáà			general term
bamboo I	chānggring	<i>A. jati</i>		
bamboo II	chəkhān			
bamboo III	əklō'			
bamboo IV	hāmà			generally found in hill areas
bamboo V	hāwāl			
bamboo VI	lǔ			
bamboo VII	māybrət			
bamboo VIII	māylī			
bamboo IX	māysǎng			
bamboo X	mətàng			
bamboo XI	tāwī			thorny sp. found in jungle
bamboo XII	wá	<i>A. kako</i>		
bamboo XIII	wā brùk			
bamboo XIV	wā tàl			
cactus	chānggrong			
cane I	māy krī			hill hooka
cane II	māy tūl			<i>A. pani hooka</i> used for cane furniture
cane IV	kānggòng			rāy dūng
cane III	kānchī			<i>A. lezai</i> stinging plant

### 3.3.3 Grasses and herbs

English	Kman	Latin	Additional
grass, general	təphùn		
grass sp.			
grass sp.	ānthūng		long leaves like sugar cane
grass sp.	chānggwūn sèng		et. cricket
herb sp.	chēphāy	<i>Piper longum</i>	
grass sp.	chūk mōsày		
grass sp.	ēmīn sèng		
grass sp.	ərùw		
grass sp.	ōshì		large grass sp.
herb sp.	gārō	<i>A. chirata</i>	
herb sp.	gùl təphàng		
grass sp.	hāmbriy		wild cardamom
grass sp.	hōrāw		large grass sp.
grass sp.	kānjī		stings
grass sp.	krē brāng		
herb sp.	lāwīt	<i>Rubia cordifolia</i>	
herb sp.	lāwng chōnyāng		fruit is used as pellet in toy guns
herb sp.	māwē'	<i>Paris polyphylla</i>	
herb sp.	mākāl		stinging plant
grass sp.	māklit		fern
herb sp.	mānzàŋ	<i>Zanthoxylum</i>	spices
herb sp.	māntshùw chhàyǎ		
grass sp.	māplòng		used for thatching
herb sp.	mūnglù		
herb sp.	mūntshèn		
herb sp.	mūyrūng		
herb sp.	pāwā	<i>Coptis tita</i>	
grass sp.	pā' lōŋ		used in dead rituals ( <i>təlu</i> ), similar to cardamom plant
grass sp.	plōngdāwng		used for thatching
grass sp.	rō' dək		
grass sp.	rō' krùk		
grass sp.	rō' nyàm		
herb sp.	tālūp	<i>A. machenya</i>	creeper. leaf is used as antiseptic
herb sp.	tāntshō' sèng		
grass sp.	tā' pēn		herb with sticky burs

English	Kman	Latin	Additional
wild banana sp.	ēmū		wild banana with white powdery leaf. used to smoothen loom
wild banana	ōtyūm		wild banana

sp.	wild banana	kāmān hāmbyūng	fruit is used as a vegetable
sp.	wild banana	lāmbyòng	wild banana found in hilly place
sp.	wild banana	lāng grīt	
sp.	wild banana	māwk kətòw	large sp. also <i>jahaji kol</i> (< Assamese). ‘train banana’
sp.		hāmbyùng	
wild sp.	wild banana	mōnūl hāmbyùng	fruit is eaten as a fruit also <i>chini kol</i> (< Assamese)
sp.			

### 3.3.4 Lianas and vines

**Table 7. Kman creeper names**

chānglùm	n.	creeper sp.	
dùmkā krūw	n.	creeper sp.	= tālūp
ēsūw	n.	creeper sp.	
gān	n.	creeper sp.	
hōkyèt	n.	creeper sp.	
hōmbrō	n.	creeper sp.	
hōrō	n.	creeper sp.	
kānchhī	n.	creeper sp.	
kānggōng	n.	creeper sp.	
kānggrāt	n.	creeper sp.	
kōtāl	n.	creeper sp.	
lāwkrūw	n.	creeper sp.	
māykrī	n.	creeper sp.	
māytūl	n.	creeper sp.	
mūnggūl	n.	creeper sp.	
pūlā	n.	creeper sp.	
shūkrā’	n.	creeper sp.	
tāphīt krūw	n.	creeper sp.	
tyō’ mūdī	n.	creeper sp.	
brò	n.	edible creeper sp.	
chākāng	n.	edible creeper sp.	
chhī	n.	edible creeper sp.	
dūbē	n.	edible creeper sp.	
kā’ùm	n.	edible creeper sp.	
mōntshūn	n.	edible creeper sp.	
shūkəwā	n.	edible creeper sp.	
pōprā	n.	pumpkin	
kērēlā	n.	bitter gourd	
lāhō	n.	sweet potato	= shūkūn
shūkūn	n.	sweet potato	= lāhō

### 3.3.5 Mushrooms

Table 8 shows Kman edible mushrooms

**Table 8. Kman mushroom names**

---

mushroom I	chīknūng	
mushroom II	chōng grāt	
mushroom III	sāwlū	
mushroom IV	pāsī	
mushroom V	māypāt	
mushroom VI	mūng phlī'	grows on cowpats
mushroom VII	mūndē	
mushroom VIII	lūy nyūl	
mushroom IX	kūm tūwà	
mushroom X	mā'plūm	

I-V grow on trees so are included in the fungus category, VI is regarded as separate.

fungus sālāy